



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D2651-3
Job Sheet 169424



Part No: D2651-3

Job Qty: 500 ea

Part Name: O-Ring



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 12/11/17

Job Tracking No:

Due Date: 12/15/17

Created By: Diane Baker

Type: Stock

Description:

Note: DWG REV B IPP rev. A 06.02.15 new issue EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	500 pcs		12/15/17	0.00	0.00	Purchasing		<i>SPR-12-29</i>
110	Packaging	500 pcs		12/15/17	0.00	0.00	Packaging2		<i>SPR-12-29</i>
120	QC	500 pcs		12/15/17	0.00	0.00	QC6		<i>38</i>
130	Packaging	500 pcs		12/15/17	0.00	0.00	Packaging3-1	<i>FP001</i>	<i>38</i>
140	QC21-SA	500 Ea		12/15/17	0.00	0.00	QC21		<i>38</i>

Part Op 100 - Issue P/O: *1387616* Purchase P/N: MS28775-008 as per Dwg D2651 Supplier: Parker
Descriptions: 110 - Ensure material certification is attached
120 - Ensure Material certification comply to Dwg D3446
130 - LOCATION : FP001

DEC 11 2017

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	MS28775-008	500	0	0	0

Part Specifications

Specifications could not be found.

Plex 12/11/17 1:08 PM dart.baker.diane

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

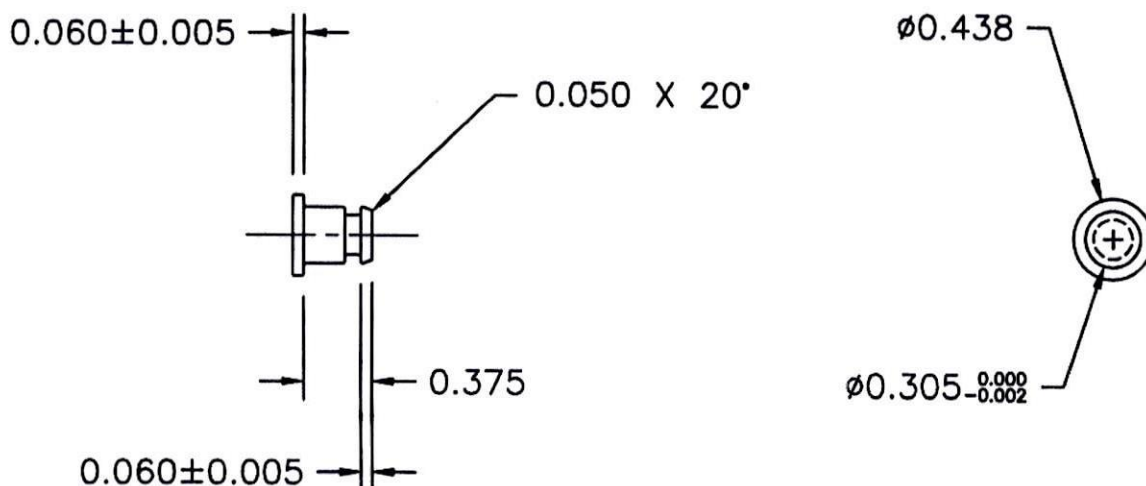
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



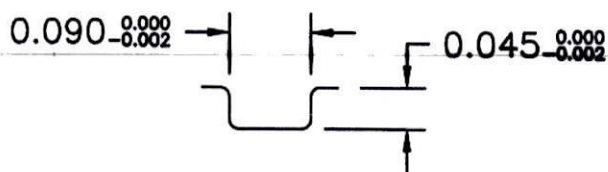
DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. D2651	REV. B SHEET 1 OF 1
DATE 03.12.19		TITLE PLUG	SCALE 1:1
A	97.03.25	NEW ISSUE	
B	03.12.19	ADD POWDER COAT, MS28775-008	

RELEASED
03.12.19 #

D2651-1 PLUG:



GROOVE DETAIL (SCALE 5:1)



D2651-1 PLUG

- 1) MATERIAL: 6061-T6 (QQ-A-225/8) OR 1100-0 (QQ-A-225/1)
- 2) FINISH: ACID ETCH & ALODINE PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.010 MAX

D2651-3 O-RING

- 1) MATERIAL: BUNA N, 70 DUROMETER
3/16 ID, 5/16 OD, 1/16 WIDTH
(PARKER 2-008, MS28775-008 OR EQUIVALENT)

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038616

Supplier: KLX001-VU
KLX Inc.
88289 Expedite Way
Chicago, IL 33172 USA
Phone: 305-925-2600
Fax: 305-507-7191

Attention: Pilon, Lucie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038616
PO Date: 12/11/17
Due Date: 12/15/17
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

Via: Fedex Economy
Pymt Terms: COD
Freight Terms: Collect
Special Comments:

E-MAILED
DEC-12-2017

Items									
Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	MS28775-008	O-Ring	Firmed	12/15/17	500 Ea	0 Ea	500 Ea	\$0.08/Ea	\$40.00
Line Item Note: job# 169424									
2	NAS1330S08KB106	Rivnut	Firmed	12/15/17	100 Ea	0 Ea	100 Ea	\$1.17/Ea	\$117.00
3	NAS1611-010	O-Ring	Firmed	12/15/17	300 Ea	0 Ea	300 Ea	\$0.29/Ea	\$87.00
4	NAS1611-013	O-Ring	Firmed	12/15/17	200 Ea	0 Ea	200 Ea	\$0.29/Ea	\$58.00
5	MS9165-05	Bracket	Firmed	12/15/17	40 Ea	0 Ea	40 Ea	\$4.50/Ea	\$180.00
Grand Total:									\$482.00

Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS
A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/12/17 10:09 AM dart.baker.diane

12/21/17

CUSTOMS INVOICE/PACKING SHEET



5274501-00

Cust#: 41513

SOLD TO: KLX Inc.

ATTN LESLIE MENIEUR
USSHIPPER: KAPCO GLOBAL
3120 E. ENTERPRISE
BREA, CA 92821

SHIP TO: DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY, CA K6A 1K7 CA

Pref. Routing A.O.G.: FEDX INTL ECON COLL

UPC VENDOR	INVOICE NO.	ON DOCK
000000	JFP8LP	12/12/17
PROMISED	REQUEST	SHIPPED
12/15/17	12/12/17	
CUSTOMER P.O.		CUSTOMER RELEASE
P0038616:		B5YFV4

CORRESPONDENCE TO:

KLX Inc.

10000 N.W. 15th Terrace

Miami, FL 33172

P.O. NUMBER	ITEM NO.	PART NUMBER	ICN No.	QTY	UOM	UNIT PRICE	TOTAL VALUE	COUNTRY OF ORIGIN	QUANTITY ORDERED	QUANTITY B.O.	QUANTITY SHIPPED
0081X31	1	MS28775-008		500.00	EA	0.08	40.00		500.00	0.00	500.00
		ECCN# 9A991.d									
		Desc: PACKING									
		PCAT: S									
		Customer Product: MS28775-008									
		Sch B 4016930000									
			515630	500.00		Cure: 4Q2017		US			
		MFR- Name: PARCO INC.									
		Revision: A									
		MFR- Batch: 58992									
		IT IS HEREBY CERTIFIED THAT THE ITEM IDENTIFIED HEREIN CONFORMS TO AN ESTABLISHED INDUSTRY, U.S. GOVERNMENT, OR COMMERCIAL STANDARD. PARTS ARE BEING SHIPPED BY KAPCO ON BEHALF OF KLX AEROSPACE SOLUTIONS (KLX Inc.)									
		S/L: 15 YRS PER ARP5316									
		INSP BY: mxa 12/21/2017									

TOTAL BOX VALUE:

PAGE 1

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

FOR CUSTOMS PURPOSES ONLY. DO NOT PAY FROM THIS DOCUMENT.

NLR unless otherwise advised in body of document



CERTIFICATE OF CONFORMANCE

WE HEREBY CERTIFY THAT THE PRODUCT SUPPLIED IS NEWLY MANUFACTURED, CONFORMS TO THE APPROVED DESIGN DATA, AND MEETS ALL REQUIREMENTS OF THE APPLICABLE PURCHASE ORDER. EVIDENCE OF CONFORMANCE IS ON FILE AND AVAILABLE FOR REVIEW UPON REQUEST.

GARY DePHILLIPS
DIRECTOR, CORPORATE QUALITY

Thank You For This Order
PACKING LIST

Terms of Sale - Incoterms-2010; EXW: Brea, CA

12/21/17

CUSTOMS INVOICE/PACKING SHEET



5274501-00

Cust#: 41513

SOLD TO: KLX Inc.

ATTN LESLIE MENIEUR
, USSHIPPER: KAPCO GLOBAL
3120 E. ENTERPRISE
BREA, CA 92821

SHIP TO: DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY, CA K6A 1K7 CA

Pref. Routing A.O.G.: FEDX INTL ECON COLL

UPC VENDOR	INVOICE NO.	ON DOCK
000000	JFP8LP	12/12/17
PROMISED	REQUEST	SHIPPED
12/15/17	12/12/17	
CUSTOMER P.O.		CUSTOMER RELEASE
P0038616:		B5YFV4

CORRESPONDENCE TO: KLX Inc.

10000 N.W. 15th Terrace

Miami, FL 33172

P.O. NUMBER	ITEM NO.	PART NUMBER	ICN No.	QTY	UOM	UNIT PRICE	TOTAL VALUE	COUNTRY OF ORIGIN	QUANTITY ORDERED	QUANTITY B.O.	QUANTITY SHIPPED

SPR-12-29

DAS
38
9-89

TOTAL BOX VALUE:

40.00 USD

PAGE 2

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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Gary DePhillips

GARY DePHILLIPS
DIRECTOR, CORPORATE QUALITY

Thank You For This Order
PACKING LIST

Terms of Sale - Incoterms-2010: EXW: Brea, CA

Parco

PARCO, INC.
1801 S. Archibald Ave.
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

PACKING LIST 35877

Ship
To

KAPCO-GLOBAL CT
1 INDUSTRIAL PARK ROAD
CENTERBROOK CT 06409

Bill
To

KAPCO
3120 EAST ENTERPRISE STREET
BREA CA 92821

Purchase Order 517753-00
Buyer COREY
Specification MIL P 25732
Certification Type J
Sales Order 20318
Date Entered 10/20/17
Account 9231-03
Date Shipped 11/30/17
Ship Via UPS GRD COL/3RD PTY
Bill of Lading 1Z9299310352011481
No. of Cartons 1
Gross Weight (lbs.) 13

Line	Customer Part	Rev.	Part	Compound	Quantity	Batch	Date Cured	COO
01	MS28775-008	A	0568-008	4067-70-73	6,707	58992	4Q 17	US
	O-RING (DIV 57)			NET WEIGHT	1.02 LBS.			
	70-DUROMETER NITRILE							

REC'D DEC 08 2017

B 515630

Remarks:

SHIPPING: CURE DATE MAY NOT BE MORE THAN
12 QUARTERS OLD.
SHIPPING: UPS COLLECT ACCT# 979-375
QC CLERK: COO AND SHELF LIFE REQ ON CERT
SHIPPING: IF MORE THAN 5 BOXES,
TOTALING MORE THAN 100LBS
CONTACT CSR
SHIPPING: MAKE SURE TO SHIP UP TO 10%
OVER
QUAL CLERK MERCURY FREE CERT REQUIRED

MATERIAL CERTIFICATION

See Separate Certification

Packed By
YC

Shipped By
DC

Approved By
DC



ICN: 515630, Doc Date: 12/8/2017 CERTIFIED TRUE COPY

Parco

PARCO, INC.
1801 S. Archibald Avenue
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

MATERIAL CERTIFICATION

Type J

No. 16104

Account Name KAPCO
Purchase Order 517753-00
Customer Part MS28775-008 REV. A
Material Specification MIL P 25732 REV. C1
Product O-RING
Elastomer NITRILE
Color BLACK
Quantity Shipped 6,707

Account No. 9231-03
Sales Order 20318-01
Parco Part 0568-008
Compound 4067-70-73
Shipping Order 71906
Date Prepared 11/30/2017
Prepared By C. JUSTICE

I certify the following about the parts described above:

1. Parco manufactured the parts as follows: Batch 58992 Date Cured 4Q 17.
2. The following acceptance testing shows conformance to the requirements:

<u>Physical Property</u>	<u>Requirement</u>	<u>Result</u>	<u>ASTM Test Method</u>
Batch (from MS28775-214 O-rings):			
Original physical properties:			
Hardness, Shore A, min.(a)	68	78	D2240
Specific gravity	1.30 to 1.34	1.32	D297
Tensile strength, psi	1462 to 2192	1933	D1414
Ultimate elongation, pct.	160 to 228	214	D1414
Modulus at 100 pct. elongation, psi, min.	500	857	D1414
Temperature retraction, TR-10, °F, max.	-49	-55	D1329
Fluid aged in MIL-PRF-5606 fluid, 70 hours at 135°C (275°F):			
Compression set:			D395 Method B
Pct. of original deflection, max.	55	42	D1414
Temperature retraction, TR-10, °F, max.	-49	-54	D1329
Hardness change, Shore A(a)	-15 to 5	-7	D2240
Volume change, pct.	1 to 20	9	D471

(a) Hardness and hardness change tested from standard hardness disk.

3. Parco manufactured the parts using material that conforms to MIL-P-25732 Rev.C dated February 25, 1980, with Amendment 1, dated May 17, 1984. Parco compound 4067-70-73 is listed on QPL 25732.

Supplemental Information: SHELF LIFE 15 YEARS, COUNTRY OF ORIGIN USA.



Carl Horn, Vice President, Quality

Distribution: 2 copies to customer
Form 2359 Rev. 09/17



ICN: 515630, Doc Date: 12/8/2017 CERTIFIED TRUE COPY

Parco

PARCO, INC.
1801 S. Archibald Avenue
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

Certificate of Freedom from
Mercury Contamination
No. 12534

Account Name	KAPCO	Account No.	9231-03
Purchase Order	517753-00	Sales Order	20318-01
Customer Part	MS28775-008 REV. A	Parco Part	0568-008
Elastomer	NITRILE	Compound	4067-70-73
Shipping Order	71906	Date Prepared	11/30/2017
Quantity Shipped	6707	Prepared By	C. JUSTICE

Batch

Date Cured

58992

4Q 17

1. Parco has assured that all mercury-bearing instruments, apparatus and equipment are enclosed in a double boundary of containment. Parco does not handle mercury or its compounds anywhere in the manufacturing plant.
2. The product above is free from mercury contamination.



Carl Horn, Vice President, Quality



Distribution: 2 copies to customer
Rev. 01/09

ICN: 515630, Doc Date: 12/8/2017 CERTIFIED TRUE COPY

DART
AEROSPACE
S027453



0 - Ring

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

PART NO:
Revision:
Operation:
Change No:

D2651-3

Packaging

Mfg Date: 12/29/17
Job No: 169424